

Amendments to the Claims:

Please cancel claims 1 - 28.

Please add new claims 29 – 48.

The following listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 – 28 (Cancelled)

29. (New) An airborne element detection and evacuation system for a structure, comprising:

an airborne element sensor, capable of detecting the presence of a predetermined airborne element, the airborne element sensor having an output signal indicating the presence of the predetermined airborne element;

an airborne element evacuation system in communication with the airborne element sensor and capable of receiving the output signal, the airborne element evacuation system comprising a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus; and

an alert system in communication with the airborne element evacuation system, the alert system comprising visual, audible, and haptic interface system alerts, wherein upon the output signal indicating the presence the predetermined airborne element, the evacuation system actuates the exhaust apparatus causing at least a portion of the airborne element to be removed from the structure via the conduit system, and the alert system actuates the visual, audible, and haptic interface system alerts.

30. (New) The airborne element detection and evacuation system of Claim 29, wherein the alert system is portable.

31. (New) The airborne element detection and evacuation system of Claim 29, wherein the alert system further comprises a power receptacle interface having a plurality of programmable outlets, at least one outlet being configured to change states upon the output signal indicating the presence the predetermined airborne element.

32. (New) The airborne element detection and evacuation system of Claim 31, wherein the power receptacle interface includes the visual and audible alerts.

33. (New) The airborne element detection and evacuation system of Claim 31, wherein the power receptacle interface is portable.

34. (New) The airborne element detection and evacuation system of Claim 29, wherein the airborne element evacuation system further comprises a first valve and a second valve within the conduit system, the first valve being interposed between the interior of the structure and the second valve, the second valve being interposed between the first valve and the exhaust apparatus, wherein upon the output signal indicating the presence the predetermined airborne element, the evacuation system actuates the second valve causing the second valve to open to allow at least a portion of the airborne element to be removed from the structure via the conduit system.

35. (New) The airborne element detection and evacuation system of Claim 34, wherein the second valve is a fail open valve.

36. (New) The airborne element detection and evacuation system of Claim 29, wherein the airborne element evacuation system further comprises a booster apparatus within the conduit system, the booster apparatus being interposed between the interior of the structure and the exhaust apparatus, wherein upon the output signal indicating the presence the predetermined airborne element, actuation of the exhaust apparatus causes the booster apparatus to activate assisting the exhaust apparatus in removing at least a portion of the airborne element from the structure via the conduit system.

37. (New) The airborne element detection and evacuation system of Claim 29, further comprising a filter apparatus interposed between a discharge of the exhaust apparatus and an ambient atmosphere exit means, wherein prior to entering the atmosphere, the airborne element is filtered through the filter apparatus.

38. (New) The airborne element detection and evacuation system of Claim 29, wherein the airborne element sensor is a smoke detector.

39. (New) The airborne element detection and evacuation system of Claim 38, further comprising a sprinkler system in communication with the smoke detector, wherein upon detection of smoke, the sprinkler system is activated.

40. (New) The airborne element detection and evacuation system of Claim 38, wherein the sprinkler system is resettable.

41. (New) The airborne element detection and evacuation system of Claim 29, wherein the airborne element sensor is capable of detecting temperature, smoke, and carbon monoxide.

42. (New) An airborne element detection and evacuation system for a structure, comprising:

an airborne element sensor, capable of detecting the presence of a predetermined airborne element, the airborne element sensor having an output signal indicating the presence of the predetermined airborne element;

an airborne element evacuation system comprising a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus; and

a power receptacle interface having at least one outlet that can be configured to change states, wherein upon the output signal indicating the presence the predetermined airborne element, the evacuation system actuates the exhaust apparatus causing at least a portion of the airborne element to be removed from the structure via the conduit system, and changes the states of the at least one outlet.

43. (New) An airborne element detection and evacuation system for a structure, comprising:

at least one airborne element sensor, capable of detecting the presence of predetermined airborne elements, the at least one airborne element sensor having an output signal indicating the presence of the predetermined airborne element; and

an airborne element evacuation system comprising:

a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus; and

at least one first valve and at least one second valve within the conduit system, the first valve being interposed between the interior of the structure and the second valve, the second valve being interposed between the first valve and the exhaust apparatus, wherein upon the output signal indicating the presence the predetermined airborne element, the evacuation system actuates the exhaust apparatus and the second valve causing the second valve to open and causing at least a portion of the airborne element to be removed from the structure via the conduit system.

44. (New) The airborne element detection and evacuation system of Claim 43, further comprising:

a plurality of zones within the structure, each zone having an interior, an airborne element sensor, a first valve, and a second valve, the conduit system being coupled to the interior of each zone, wherein each zone's first valve is interposed between the zone's interior and the zone's second valve, each zone's second valve being interposed between the first valve and the exhaust apparatus; and

a programmable control system in communication with the airborne element sensors, the second valves, and the airborne element evacuation system, wherein detection of a predetermined airborne element within one of the plurality of zones, causes the control system to actuate that zone's second valve causing that zone's second valve to open allowing at least a portion of the airborne element to be removed from that zone via the conduit system, and the control system causing the remaining zones' second valves to close sealing of the remaining zones' interiors from the conduit system.

45. (New) The airborne element detection and evacuation system of Claim 44, wherein the plurality of second valves, the plurality of airborne element sensors, the exhaust apparatus, and the control system communicate via an AS-I compliant communication bus.

46. (New) An airborne element detection and evacuation system for a structure, comprising:

an airborne element sensor, capable of detecting the presence of a predetermined airborne element, the airborne element sensor having an output signal indicating the presence of the predetermined airborne element;

an airborne element evacuation system comprising:

a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus; and

a booster apparatus within the conduit system, the booster apparatus being interposed between the interior of the structure and the exhaust apparatus, wherein upon the output signal indicating the presence of the predetermined airborne element, the evacuation system actuates the exhaust apparatus causing the booster apparatus to activate causing at least a portion of the airborne element to be removed from the structure via the conduit system.

47. (New) An airborne element detection and evacuation system for a structure, comprising:

an airborne element sensor, capable of detecting the presence of a predetermined airborne element, the airborne element sensor having an output signal indicating the presence of the predetermined airborne element;

an airborne element evacuation system comprising:

a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus; and

a filter apparatus interposed between a discharge of the exhaust apparatus and an ambient atmosphere exit means, wherein upon the output signal indicating the presence of the predetermined airborne element, the evacuation system actuates the exhaust apparatus causing at least a portion of the airborne element to be removed from the structure via the conduit system, and be filtered through the filter apparatus prior to exiting the structure and entering the atmosphere.

48. (New) A method for evacuating airborne elements from a structure, comprising:
- detecting, via an airborne element sensor, the presence of predetermined airborne elements within a structure;
 - sending a signal to an airborne element evacuation system upon detection of a predetermined airborne element, the airborne element evacuation system comprising a conduit system coupled to an interior of the structure and coupled to an exhaust apparatus;
 - actuating the exhaust apparatus causing at least a portion of the airborne element to be removed from the structure via the conduit system; and
 - actuating visual, audible, and haptic interface system alerts, alerting as to the presence of the airborne elements within the structure.